SCHAEFER

User Manual TFT

TFT 480
TFT 640
TFT 800

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1 General description

TFT 480 / TFT 640 / TFT 800 are high-quality TFT displays with LED backlighting. They are characterised by a brilliant screen display and durable LEDs.
For optimal utilization of the available space , installation is possible both vertically and horizontally.

The displasy can show floor information, direction and re-starting arrows, special texts, logos and other images. The images may change with the floor or also run as "slide show". With the arrows can be animated via the "travel" input.
The functions can be configured using a PC.

2 Screen display

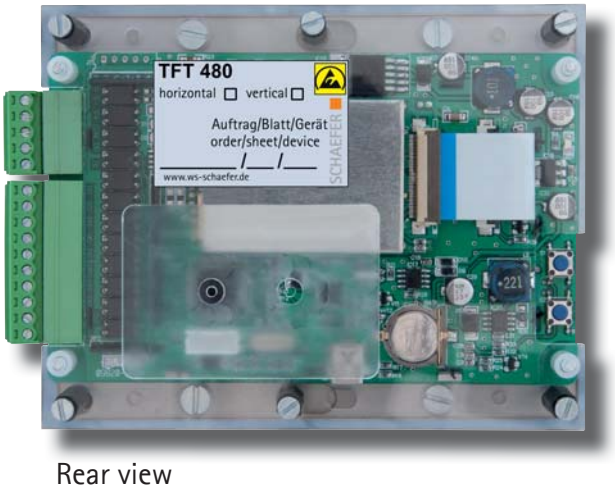
2.1 Display types

TFT 480 (4,3")

horizontal

vertical

1. arrows
2. floor designation
3. special symbol/logo
4. capacity information
5. lift data
6. floor-independent background image



Rear view

Screen display

TFT 640 (5,6")

horizontal

vertical

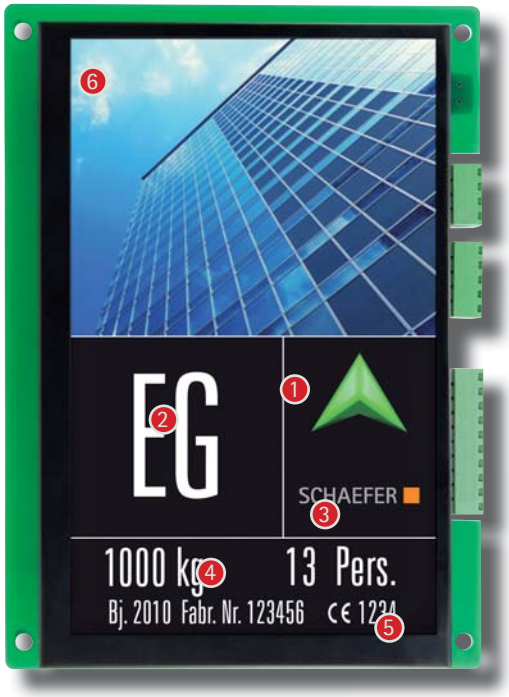
1. arrows
2. floor designation
3. special symbol/logo
4. capacity information
5. lift data
6. floor-independent background image

Rear view

Screen display

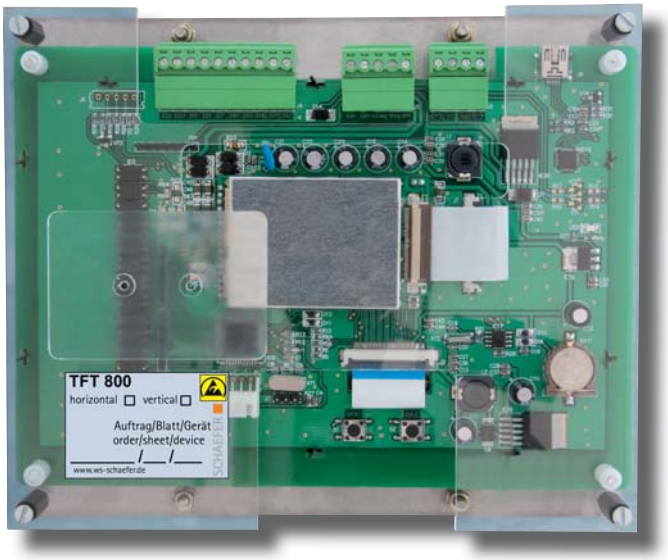
TFT 800 vertical + horizontal

horizontal



vertical

1. arrows
2. floor designation
3. special symbol/logo
4. capacity information
5. lift data
6. floor-independent background image
7. day, date, time



Rear view

These illustrations show standard layouts.

2.2 Screen display options

floors:	max. 63
arrows:	- up/down in same position
	- up/down in separate positions
	- animation
special display:	max. 4
	- 4 special displays in place of logo
	- 2 special displays in place of logo and 2 special displays as full image
	- 4 special displays and full image
logo:	yes
lift data:	yes
floors info:	max. 63[1]
slide show	max. 31[1]
time/date:	yes[2] (only for horizontal design)

[1] The max. amount depends on the image size (number of pixels).
[2] automatic conversion of summer and winter time

Layout Variants

car fixture layout, background image

indicator fixture layout, background white

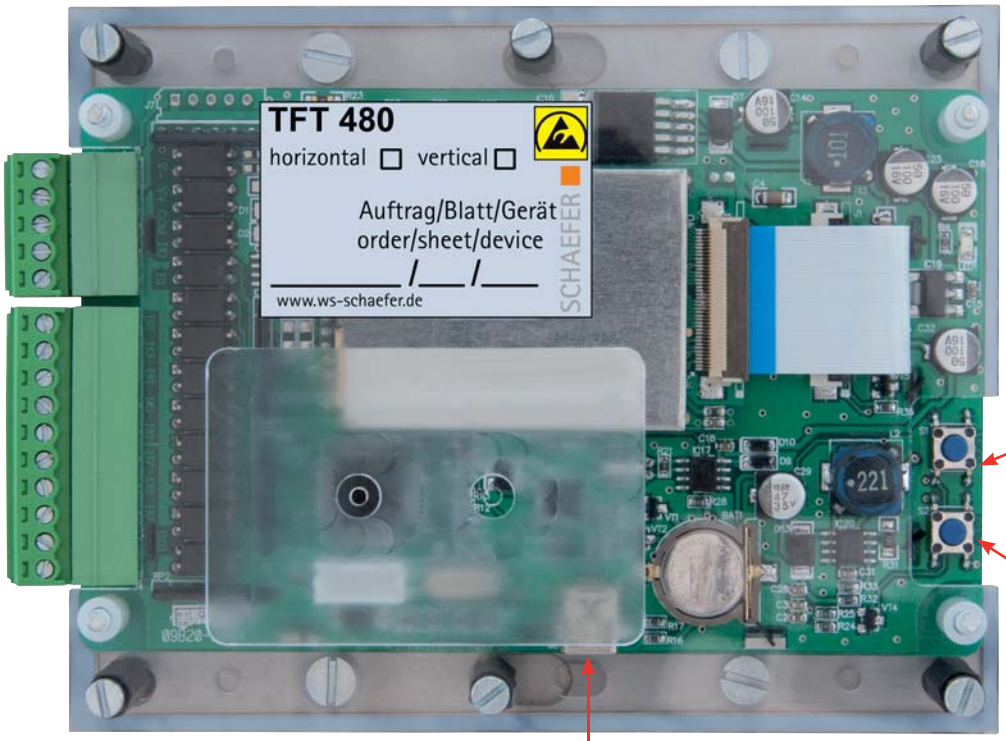
3 Configuration/Simulation

If the TFT display is to be tested prior to installation, the Simulation Kit is suitable

4 Contacting/Assignment

4.1 TFT 480

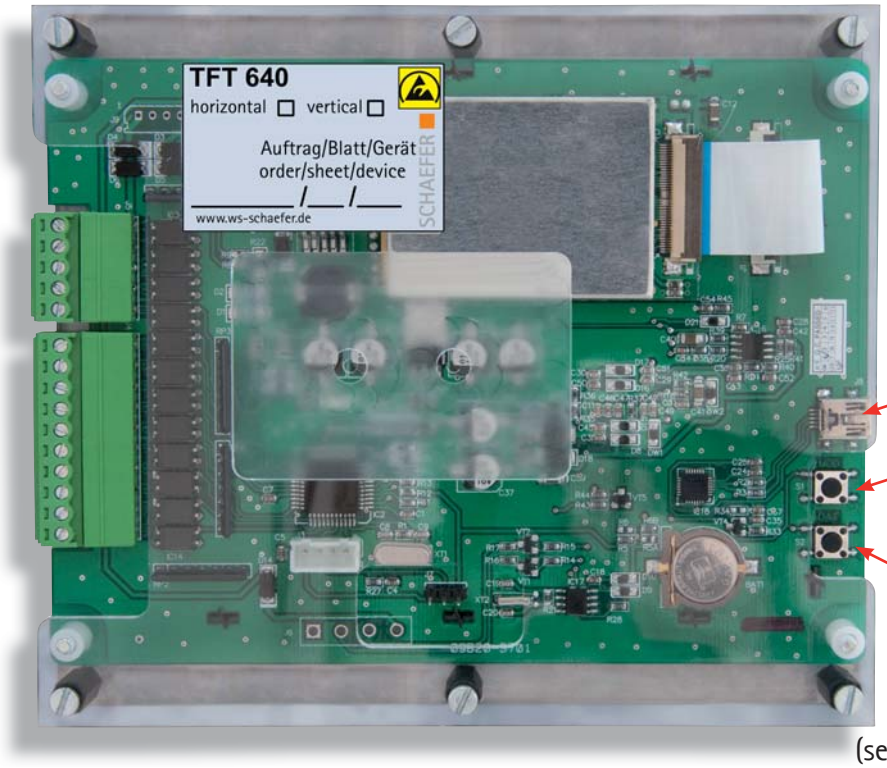
GND	V-
+24V	V+
opposite*	COM
addr. 0	B0
addr. 1	B1
addr. 2	B2
addr. 3	B3
addr. 4	B4
addr. 5	B5
up arrow	B6
down arrow	B7
special	B8
special	B9
special	B10
special	B11



* Opposite potential to B0 - B11
Common anode: COM = V+
Common cathode: COM = V-

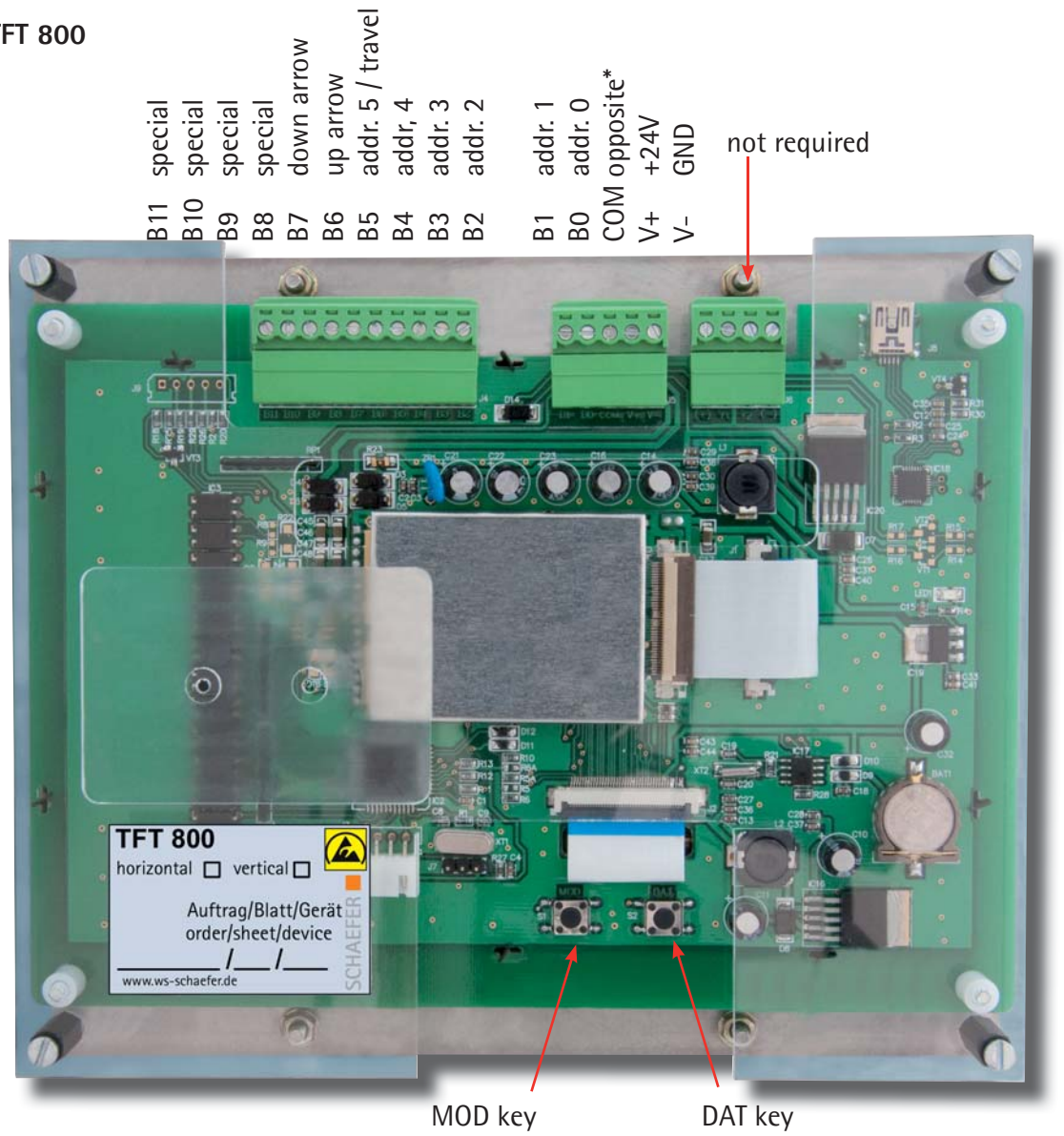
4.2 TFT 640

+24V	V+
GND	V-
opposite*	COM
addr. 0	B0
addr. 1	B1
addr. 2	B2
addr. 3	B3
addr. 4	B4
addr. 5 /travel	B5
up arrow	B6
down arrow	B7
special	B8
special	B9
special	B10
special	B11



* Opposite potential to B0 - B11
Common anode: COM = V+
Common cathode: COM = V-

4.3 TFT 800



*Opposite potential to B0 - B11
Common anode: COM = V+
Common cathode: COM = V-

(see section "Operation")

4.4 Additional devices

With the control types Dual or Gray the lines can be connected directly to the terminals.
With control 1 out of n and up to 6 stops the lines can also be connected directly.
An Encoder is required for more than 7 stops.

It can be mounted directly on the rear reinforcement plate of the TFT display.

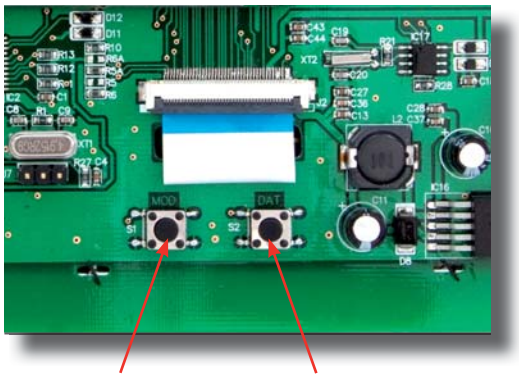
5 Operation

5.1 Configuration

To configure the display, the device must be connected via USB to the PC.
The MOD and DAT keys must now be pressed and held, the power supply must be plugged in at the same time. The keys can be released after approx. 2 sec.
The display is now in the configuration mode and can be configured using the PC.

5.2 Settings

The following modes can be selected with the TFT 640 and TFT 800 displays using the MOD key:



MOD key DAT key

The values can be set accordingly with the DAT key.

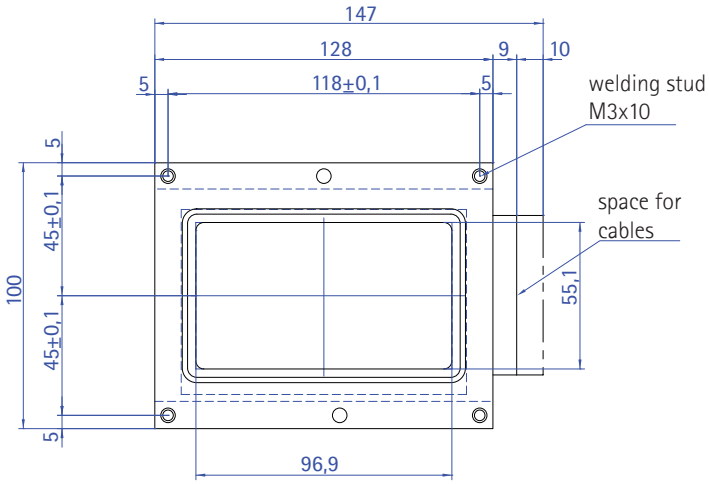
Time	HH:	hours
	MM:	minutes
Date	YY:	year
	MM:	month
	DD:	day
	WW:	weekday
Brightness	BR:	brightness
FL control:		BIN (Dual)
		GREY
		BCD
		... (not needed)
		7SEG (7-segment)
		1W1F (1ausN)
Other	ID:	Not required

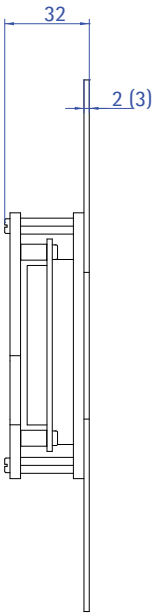
6 Installation dimensions

6.1 TFT 480

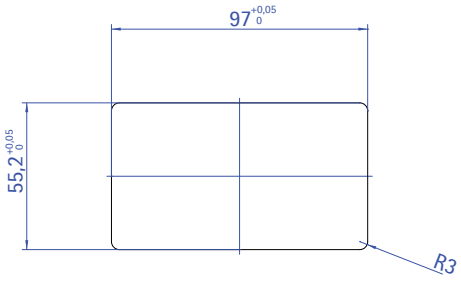
horizontal

Dimensions



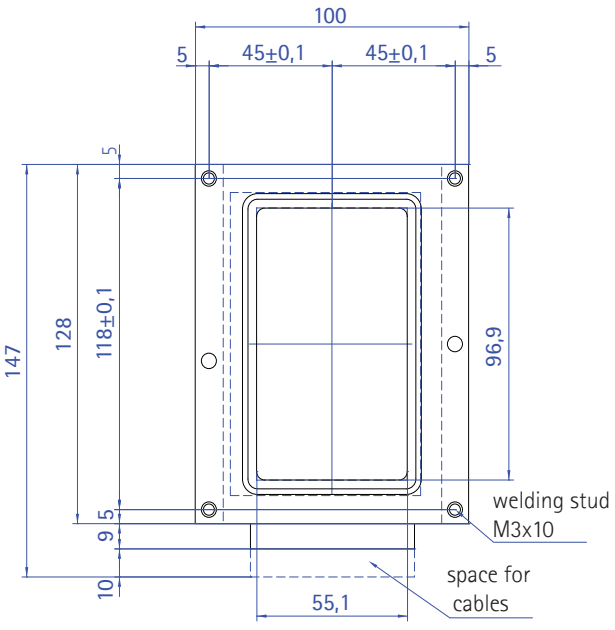


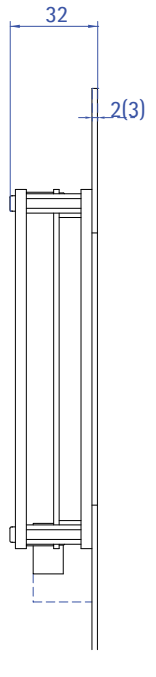
Cutout



vertical

Dimensions





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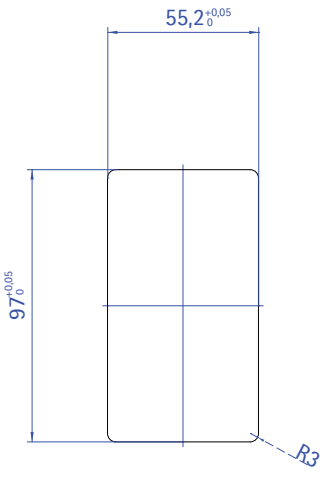
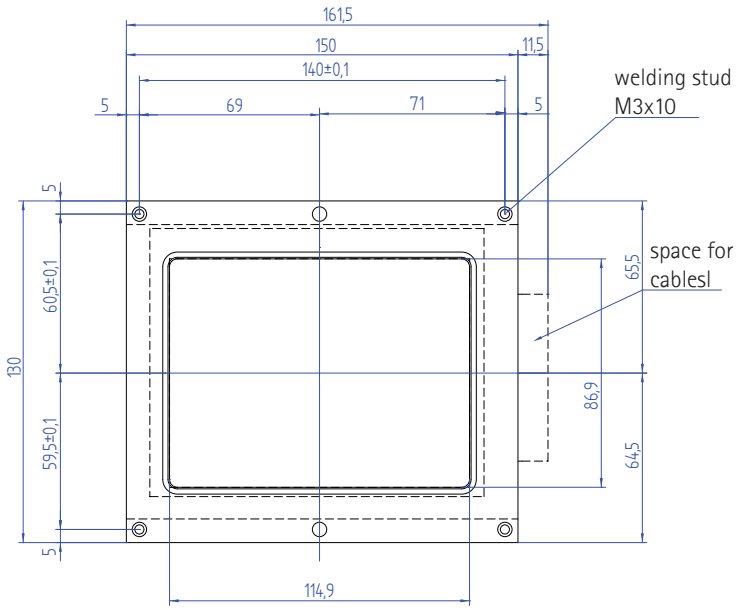
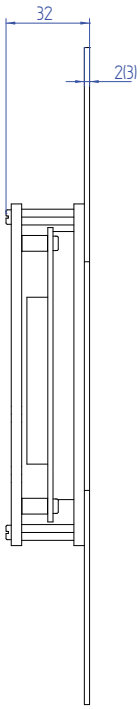


6.2 TFT 640

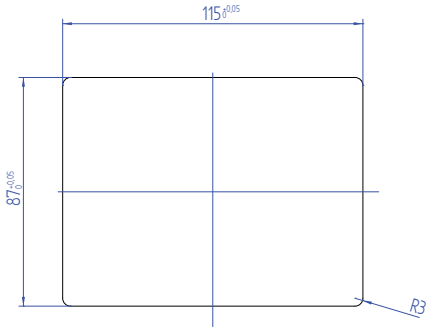
horizontal

Dimensions



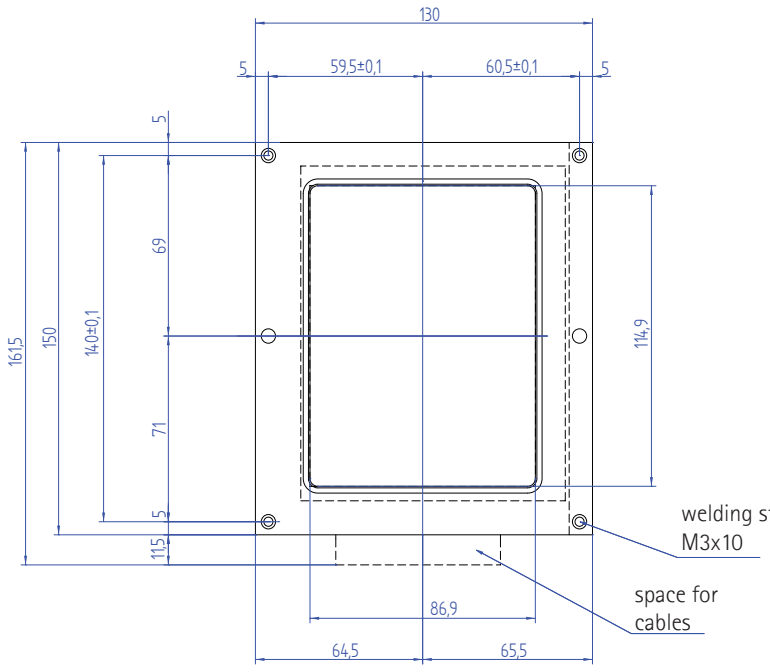


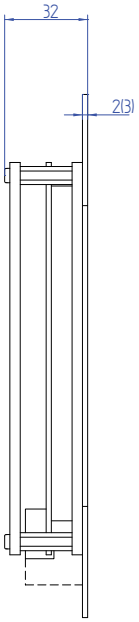
Cutout



vertical

Dimensions





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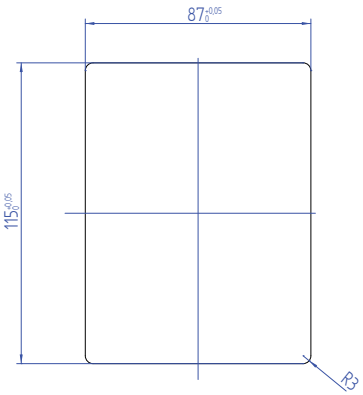
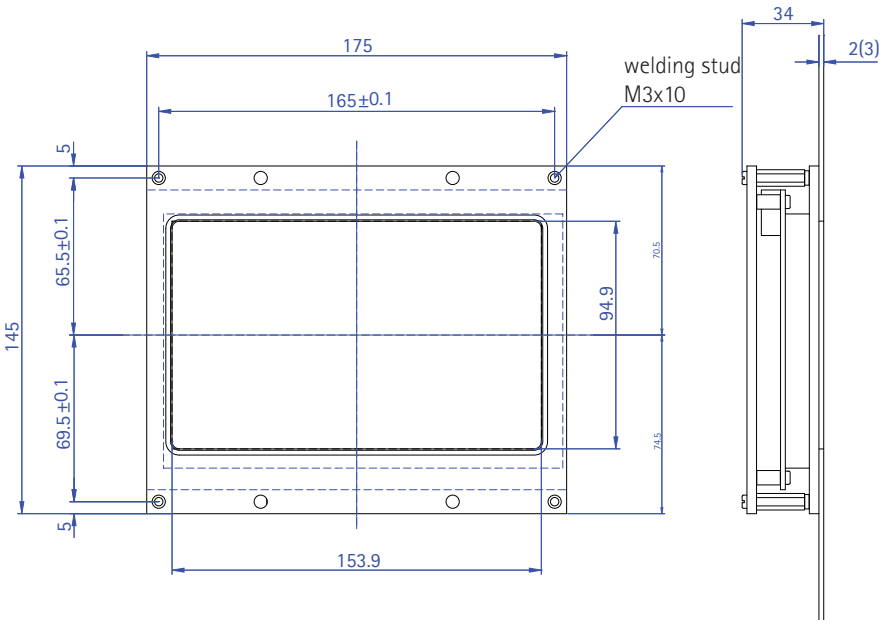


6.3 TFT 800

horizontal

Dimensions



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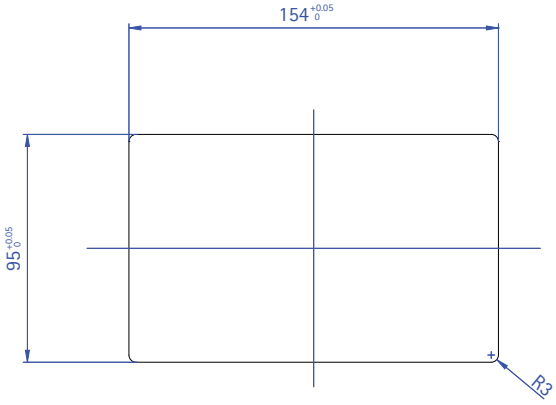
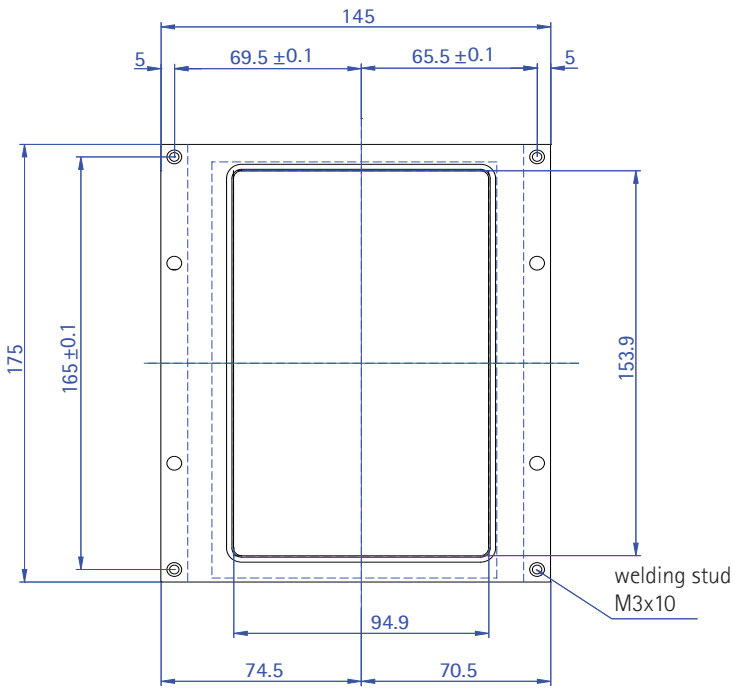


vertical

Dimensions



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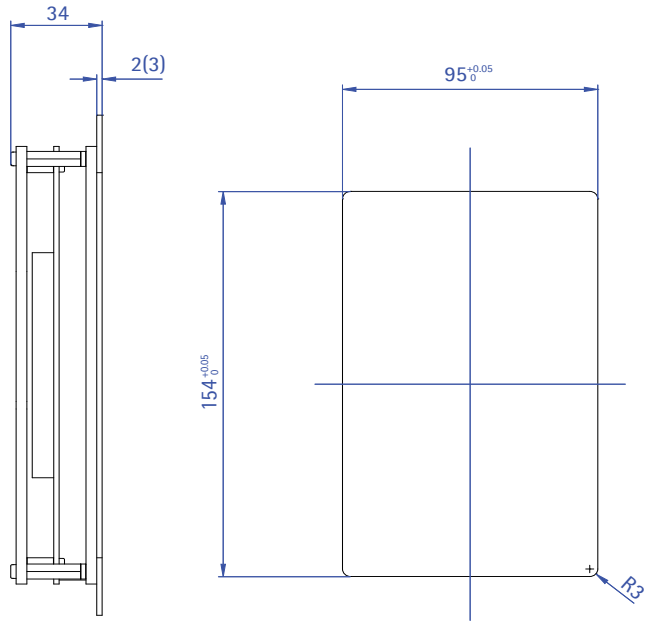

7 Characteristics

TFT 480

Supply voltage	12 V ... 27 V DC, smoothed
Current consumption	120 mA at 24 V
Resolution	480 x 272 pixel
Temperature range	0 °C ... +60 °C
Display size	96 x 54 mm, 4.3"
LED lifespan	60 000 h
Control Dual/Gray/ 7-segment	via terminals
Control 1 out of n	via terminals or Encoder
Compliance	optional EN 81-70

TFT 640

Supply voltage	12 V ... 27 V DC, smoothed
Current consumption	200 mA at 24 V
Resolution	640 x 480 pixel
Temperature range	0 °C ... +60 °C
LED lifespan	60 000 h
Display size	116 x 87 mm, 5.6"
Control Dual/Gray/ 7-segment	via terminals
Control 1 out of n	via terminals or Encoder
Compliance	EN 81-70

TFT 800

Supply voltage	12 V ... 27 V DC, smoothed
Current consumption	300 mA at 24 V
Resolution	800 x 480 pixel
Temperature range	0 °C ... +60 °C
LED lifespan	60 000 h
Display size	152 x 91 mm, 7"
Control Dual/Gray/ 7-segment	via terminals
Control 1 out of n	via terminals or Encoder
Compliance	EN 81-70

8 Versions

In addition to the standard version other versions can be supplied as well:

- water-proof design IP X3
- vandal-resistant; lift design according to lift category 1 and 2 as per EN 81-71